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L3: Entry 3 of 5

File: DWPI

Aug 19, 1992

DERWENT-ACC-NO: 1992-277903

DERWENT-WEEK: 199917

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TITLE: Sieve structure - has a snap lock fit to hold the sieve rods to the carrier rods

INVENTOR: LANGE, W

PRIORITY-DATA: 1991DE-4104615 (February 15, 1991)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 499154 A1	August 19, 1992	G	009	D21D005/16
KR 9606218 B1	May 11, 1996		000	B07B001/12
DE 4104615 A	August 20, 1992		009	B07B001/46
NO 9200563 A	August 17, 1992		000	B07B001/46
CA 2061290 A	August 16, 1992		000	B07B001/22
FI 9200653 A	August 16, 1992		000	B01D039/10
BR 9200538 A	October 27, 1992		000	A47J043/22
JP 05117989 A	May 14, 1993		007	D21D005/16
EP 499154 B1	August 30, 1995	G	011	D21D005/16
DE 59203410 G	October 5, 1995		000	D21D005/16
ES 2077260 T3	November 16, 1995		000	D21D005/16
NO 179401 B	June 24, 1996		000	B07B001/46
FI 97105 B	July 15, 1996		000	B01D039/10
CA 2061290 C	May 5, 1998		000	B07B001/22

INT-CL (IPC): A47J 43/22; B01D 33/00; B01D 39/10; B07B 1/12; B07B 1/18; B07B 1/22; B07B 1/46; B23K 7/00; D21D 5/16; D21G 9/00

ABSTRACTED-PUB-NO: EP 499154A

BASIC-ABSTRACT:

The sieve structure, for sorting fibre suspensions and the like, as a drum or a curved or flat sieve surface, is formed by parallel rods held by carrier rods across their line. The side surfaces of the sieve rods each taper inwards towards the vertical to give a conical angle of 14-35 deg.. The side surfaces of the sieve rods have projections or recesses matching or projections in the carrier rods to give a snap locking action between them when they are assembled together.

Pref. the projections or recesses in the side surfaces of the sieve rods, and those in the carrier ring, have a set-back depth of at least 0.2 mm in relation to the radials of the profile cross section of the sieve rods and the recesses and in the peripheral direction of the carrier bag. The side surfaces of the projections and recesses have the same pitch angle in relation to the radials of the profile cross section of the sieve rods and the ring carrier recesses. The side surfaces of the sieve rods, with the projections, have a thickened foot section to give a holding action in the carrier ring. When clamped in position, at least 50% of the projection exactly fits in the recess of the carrier ring and gives an accurate radial positioning. The locking recesses in the carrier rods are structured to give a snap locking action to the sieve rods inserted across their line. The holding recesses in the carrier rods can be sack-shaped, with an area reduction at the outer zone of the associated sieve rods.

ADVANTAGE - The sieve and carrier rod structures allow a sieve body to be assembled without welding.

ABSTRACTED-PUB-NO:

EP 499154B EQUIVALENT-ABSTRACTS:

A strainer such as a bow-shaped or flat-shaped strainer of a strainer basket having strainer bars (3; 3') arranged in parallel to each other, which are retained in cutouts of carrying rings or carrying bars (1; 1') parallel to each other and extending transversely to the strainer bars, the strainer bars having side faces (7, 8; 7', 8') relative to the vertical direction of the straining face, of which at least one is inclined towards the vertical direction at an angle resulting in a conicality between the two side faces of between 14 deg. and 35 deg., which, at least to a large extent, match with corresponding side faces of cutouts in carrying rings or carrying bars (1; 1'), so that the straining slot width on the inlet side of the straining face is obtained at the minimum mutual distance between the side faces (7, 8; 7', 8') of the strainer bars (3, 3'), characterised in that projections or cutouts of the strainer bars (3; 3') match recesses or projections of the cutouts of the carrying rings or carrying bars (1; 1') and together form a snap-in connection when the strainer bars are inserted into the carrying bars transversely to the longitudinal direction of the carrying rings or carrying bars.

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L2: Entry 1 of 3

File: EPAB

Aug 19, 1992

PUB-NO: EP000499154A1

DOCUMENT-IDENTIFIER: EP 499154 A1

TITLE: Screen drum.

PUBN-DATE: August 19, 1992

INVENTOR-INFORMATION:

NAME

COUNTRY

LANGE, WERNER

DE

INT-CL (IPC): D21D 5/16

EUR-CL (EPC): D21D005/16; B07B001/12, B07B001/18 , B07B001/46

ABSTRACT:

CHG DATE=19990617 STATUS=O> The invention relates to a screen drum which, along an outer cylinder surface, has screen bars which extend parallel to the centre axis of the cylinder and between them form the screen slots and which are held by support rings, extending in the peripheral direction of the outer cylinder surface at a mutual axial distance, in open-rim recesses thereof. The invention is characterised in that the screen bars have, in the radial direction (V) of the screen drum, relative to the direction of viewing, side surfaces of which at least one is inclined to the radial (V) at an angle, that a conicity of between 14 and 35 DEG results between the two side surfaces, to which at least largely corresponding side surfaces of the recesses of the support rings correspond, so that, after the deforming of support rods of corresponding length into the support rings, clamping of the screen bars in the support rings is established at these points, and that at least one of the side surfaces of the screen bars has at least one projection or a recess, the recesses or projections of the

support rings corresponding in each case conversely to re-entrant or projection. 